

WHAT IS CLAIMED IS:

1. A facility management system comprising a flow line-measuring means for measuring a flow line of a moving body by detecting said moving body in a facility to be
5 monitored; and a management information generating means for producing management information for management from said flow line information, wherein

said management information generating means comprises a moving body identifying means for identifying
10 said moving body; and a movement cost-calculating means for calculating a cost expended on movement of said moving body from said flow line information, and

said movement cost-calculating means calculates said movement cost based on a time unit price specific to said
15 identified moving body and a time period required for said movement as said movement cost.

2. A facility management system according to claim 1, wherein said movement cost-calculating means calculates a
20 total sum of values as said movement cost, each of said values being calculated by multiplying a time unit price specific to a moving means for moving said identified moving body by a time period required for said movement.

25 3. A facility management system comprising a flow line-measuring means for measuring a flow line of a moving body by detecting said moving body in a facility to be

monitored; and a management information generating means for producing management information for management from said flow line information, wherein

5 said management information generating means comprises a moving means identifying means for identifying a moving means for moving said moving body; and a movement cost-calculating means for calculating a cost expended on movement of said moving body from said flow line information, and

10 said movement cost-calculating means calculates a total sum of values as said movement cost, each of said values being calculated by multiplying a distance unit price specific to said identified moving means by a moving distance.

15 4. A facility management system according to any one of claim 1 to claim 3, wherein said management information generating means comprises a movement cost-evaluating means for judging whether or not a cost calculated by said movement cost-calculating means is within a permissible range.

25 5. A facility management system according to claim 4, wherein said management information generating means comprises a facility layout-optimizing means for optimizing a layout of said facility so as to minimize said movement cost.

6. A facility management system according to any one of claim 1 to claim 5, wherein said flow line-measuring means installed in said facility to be monitored and said management information generating means installed in a monitoring center are connected to each other through a communication network.

7. A monitoring service system, which uses the facility management system according to any one of claim 1 to claim 5, and statuses of flow line of salespersons as said moving bodies are totally monitored using a management information generating means of a monitoring center connected to a store to be monitored through a communication network, and an evaluated result of each movement cost is supplied to said store.

8. A facility using charge imposing system, which comprises:
a flow line-measuring means for detecting a moving body in a facility to be monitored, and for measuring a flow line of said moving body;

a facility-using status-calculating means for identifying a user from said measured flow line data and facility data of information specific to a facility such as place of the facility, a maintenance management cost and so on, and for calculating facility-using status data of

information relating to use of the facility such as using time and so on;

an imposed charge-calculating means for calculating imposed charge data showing a relationship between an amount of imposed money and a department to be imposed from said calculated facility-using status data, said facility data and organization data expressing a belonging relationship between said user and said department in the facility; and

a accounting processing means for totally performing accounting processing based on said imposed charge data.

9. A facility using charge imposing system according to claim 8, which further comprises:

a store-using status-calculating means for calculating store-using status data of information relating to use of a store such as a customer to the shop, time of using the shop and so on from said flow line data and store data expressing information specific to the store such as place of the store; and

an imposed charge-calculating means for calculating imposed charge data showing a relationship between an amount of imposed money and a store to be imposed from said calculated store-using status data, said facility-using status data, said store data and said facility data.

10. An elevator calling system comprising a

ity management system having a flow line-measuring means for detecting a moving body in a facility having an elevator and for measuring a flow line of said moving body; and a management information generating means for
5 generating management information for managing said elevator from said flow line information, wherein

said management information generating means comprises:

a moving body identifying means for identifying said
10 moving body based on said flow line information;

a flow line history-checking means for judging whether or not said measured flow line information conforms with a flow line history pattern expressing a condition of calling said elevator, and for outputting a control signal
15 to call said elevator when said measured flow line information conforms with the flow line history pattern; and

an elevator-control means for controlling said elevator based on said control signal.

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11. An elevator calling system comprising a facility management system having a flow line-measuring means for detecting a moving body in a facility having an elevator and for measuring a flow line of said moving body; and a
25 management information generating means for generating management information for managing said elevator from said flow line information, wherein

said management information generating means comprises:

a moving body identifying means for identifying said moving body based on said flow line information;

5 a flow line history-checking means for judging whether or not said measured flow line information conforms with a flow line history pattern expressing a condition of changing a control mode of said elevator, and for outputting a control signal to change the control mode of
10 said elevator when said measured flow line information conforms with the flow line history pattern; and

an elevator-control means for controlling said elevator based on said control signal.

15 12. A facility maintenance assisting system, which comprises:

a flow line-measuring means for detecting a moving body in a monitored object, and then measuring a flow line of the detected object;

20 a histogram-calculating means for dividing a facility into small zones from said flow line data, and then calculating histogram data expressing a using frequency for each of said small zones;

a histogram-evaluating means for forming a
25 maintenance plan corresponding to said using frequency obtained from said calculated histogram using said using frequency; and

a facility maintenance planning means for integrating the whole maintenance plan based on said maintenance plans.

13. A facility maintenance assisting system according to
5 claim 12, which comprises a facility maintenance planning means for actually integrating the whole maintenance plan.

14. A facility maintenance assisting system according to
10 any one of claim 12 and claim 13, wherein said histogram-calculating means calculates a movement frequency between said small zones.

15. A memory medium, which stores a program realizing any
15 one of claim 1 to claim 14 on a computer.